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SANITARY ENGINEER.

It's the old and much abused trade of plumbing, placed on a scientific basis, and it offers scientific basis, and it offers splendid opportunities to the ambitious bey who longs to take up a good trade.—How he can start it and how he must spend his first five years—The possibilities after his apprenticeship is ended.—Positions that will pay all the way from five dollars a day to thousands of

dollars a year. By C. W. JENNINGS.



ANITARY ENGINEER-the title sounds differently from the old one of plumb-er, doesn't it?

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er, doesn't it?

It wasn't as long ago,
comparatively speaking,
that a plumber didn't amount to much,
at least, in the public estimation; for
it has been only recently—again speak
ing comparatively—that there has been ing comparatively—that there has been much attention, other than the old rule of thumb sort, paid to plumbing, per se and the closely allied subjects of heating and ventilation. Modern conditions, however, have resulted in such tremendous advancement in building methods that there is now room for the exercise of the highest efficiency in all these branches of the clency in all these branches of the plumbing trade, so-called. Indeed, in these most important subdivisions of building, the requirements are so inreasingly intricate and important that the old trade of plumbing has become a verifable scientific profession—that

a verifible scientific profession—that of sanitary engineering.
Therefore, when you are casting about for a vocation for your boy, and he doesn't care for any of the regular professions or the other trades, try plumbing of the new brand; for here is opportunity for him to exercise all the brains he may possess, and also to advance as high in the world's rewards and esteem as he probably could in and esteem as he probably could in any other line.

when the young man makes his start, however, he will find that he must drudge along for five years, as a mere helper at about \$1.25 a day for eight hours' week, and without opportunity to make substantial advancement till the end of that time. But, even so, if he should make his beginning when he is sixteen, he will have passed this probationary period by the time he is twentyone, and will then time he is twenty-one, and will then be known as a full master plumber and earning \$5 or more a day, with a fine future directly ahead of him—which is soon enough for one to have made such progress.

practically nothing. To get a job, go to a plumber of the new sort, and nak him, and he will employ the boy if he has no opening. If he hasn't another will, and then begins the boy's half-decade of work and learning, durant with restel it is not believe to be a second of the man white restel. half-decade of work and learning, during which period it is up to him to make himself just about the best plumber in the business by the time he is through his apprenticeship. The work at the start will be little more than that of roustabout, for your boy will know nothing fo the trade; but tay engineer, include a wide range of be will soon become familiar with the ways in which plumbers do things, and before long will know and be told what he had best study at nights and odd hours.

Various other openings, particularly with municipalities, which require plumbers and superintendents.

The studies referred to, which have to be accomplished before your son could get very far toward being a sanishest. These may be shown, for example, in the requirements of an average examination for plumber's lights.

After this there will be steady prog-Swallowing Raw Eggs.

astom for persons who are run down

physically to take raw eggs. Formerly one thought it exclusively a diet for tuberculosis victims, and dyspep-

for tuberculosis victims, and dyspep-tics. It is no easy matter to swallow a raw egg. If nauseating to you there are various disguises for it. Salt and pepper make it more palatable. Or a little lemen or orange juice can be sprinkled over the top and the egg go down with it. One man who has become a comoisseur from long ex-perience says the one and only way to dispose of the slippery article of food is to swallow it down as one would an oyster, with nothing to doc-tor it. This, he says, can be easily done by using a tall, narrow-mouthed glass, the narrower the better. This gives the egg a good start, it does not get a chance to spread over the top

get a chance to spread over the top of the glass or one's mouth and is down before you know it.

Pride of Opinion.

It is becoming mor

ress, until at the end of his five years he should have no difficulty in pass-ing the most difficult examination that a civil service or other examin-ing board can think out. It is the cun ing board can think out. It is the cus-tom in most cities powadays to require licenses from pinmbers, and to get these more or less severe examinations must be passed. However, they are no more severe than an ordinarily bright boy should be able to get through after his five years of appren-ticeship and study.

the next step for your son, who is now a master plumber, is a foremanship, which he may get very soon; maybe at once, if his employers do an extensive business, for, as in other lines, the man who shows executive ability is not at all common. Foremen get about fifty cents a day more than plumbers; but they have the further advantage of being steadily employed, whereas, ordinary workmen are more whereas, ordinary workmen are more subject to the vicissitudes of the trade, generally losing time between jobs, or on account of bad weather, or having to wait for carpenters, bricklayers, or others to get out of the way. Also, the foreman is given extras in the way of overtime, etc., which may amount to considerable in the course of a

A foreman has anywhere from a few

But long before this time your boy would have perhaps formed numerous valuable acquaintances among large contractors, architects and others engaged in building operations, and have plenty of opportunities to get into business for himself. Backing would not be lacking; for building is one of the most important and profitable lines of business nowadays, and there are plenty of moneyed men anxious to get plenty of moneyed men anxious to get into it, so that your able son would be just the one they needed to handle the plumbing and sanitary department of the firm. The writer knows two mem-bers of one of the largest plumbing contracting firms in New York. One of them, the head, is only thirty-four years old, and he began as a plumber's helper in a small city when he was helper in a small city when he was eighteen. He is earning thousands of dollars a year; but he had to advance in the way your boy will have to go if he takes up plumbing. Also there are various other openings, particularly with municipalities, which require plumbing and sanitary inspectors and

knowledge of simplicity, efficiency, cleanliness, durability and relative cost; all about invatories; kitchen sinks, strainers, waste pipes, grease traps, etc.; bathings, merits of different makes, advelrages of shower baths; launder tuns, material type, and position; slop sinks; water closets; refrigorators; flushing apparatus; water service pipes, how to connect with street mains, stop cocks, etc.; fixture, supply pipes, how to obtain a uniform supply of water, how the height of a column of water special supports, capacity, connections, precautions; hot water supply system, boilers, water backs, piping; designs of pipe fixtures, uses, material, ec., of drain, soil, waste, vent, and water supply pipes, testing, strength, firtings, etc.; main drains, main traps, air inlets; traps; ventilation pipes; firects of fivering; principles and knowledge of the different parts of pumps.

ent parts of pumps.

In addition to all the foregoing, which are required down to the aftermost detail, your ambitious boy will be wise to study the principles of mechanics, hydromechanics, elementary chamics, hydromedismics, elementary chemistry, gas making and distribution, drainage and sewerage, sources of water supply, water filtration, cold and hot/water supply, plumbing inspection, plans and specifications for plumbing, geometric drawing, reading architects' drawings, steam fitting and its acces-sories, radiators and colls, heating and power bollers, principles of heating and ventilation, steam generation, steam heating pipe systems, exhaust and va-cuum systems, hot water heating sysems, central station heating, hot air heating, blower systems, drying and cooking by steam, engine room equipment

This sounds like a tremendous course of study for your boy to be graduated from as the result of night study; but others who have gone before him have done it. It is necessary, if your boy expects to reach the top of the trade and make it a scientific profession—to A foreman has anywhere from a few up to fifty or more workmen under him, according to the importance of the building or other work in hand. In case it is important work, such as a large botel or office building, where fifty or more mes at work on the plumbing, your son might be head foreman, and make as much as \$10 a day, and might reach this important position before he is filtry years old.

The next step upward will be to a superintendency for a big construction or contract firm, when he would have to make estimate of cost, etc., for the plumbing on large work, in addition to being the direct head of all foremen employed by that company. In this case his pay would be anywhere from \$35,000 to \$5,000, or even more, annually.

The Fear in Aviation.

Just before his departure from Eng-land for the aviation meet at Boston Mr. Grahame-White, the foremost English birdman, in an interview thus described the nerve strain of flying:
"It is the tension of fearing that something unexpetced may happen—that
the engine may fail, that a stay may break, that a controlling wire may snap. Any one of these things may, one knows quite well, bring about a fearful fail. The rush of sir, and the fact that one is high above the ground have very little to do with the or-

Cultivating Memory.

A good memory is not wholly a gift of nature. It is the result of paying tention and taking pains. Anyone who chooses may have an accurate memory, and anybody who doean't choose may have a wretched one. One can ald memory by subtle laws of suggestion. The main thing, however, is to pay attention.

British Imports of Meat.

could get very far toward being a sant-tary engineer, include a wide range of subjects. These may be shown, for example, in the requirements of an example, in the requirements of an average examination for plumber's license in one of the country's large cities. They run about as follows:

The selection of fixtures, including

anyone to change them. It is said no one has ever been converted by abstract argument.

At the time of the great disaster in Martinique, the Italian bark Orsolina

was taking on a cargo of sugar there. Her captain was accustomed to vol-cances and he did not like the appearance of Mont Pelee. Not half his cargo was on board, but he decided to sail for home. "The volcano is all right," argued

The volcano is all right," argued the shippers. "Finish your loading."
"I don't know anything about Mont Pelee," said the captain, "but if Vesuvius looked that way I'd get out of Naples, and I'm going to get right out of here."

The shippers threatened him with arrest. They sent customs officers to detain him, but the captain persisted in leaving. Twenty-four hours the shippers and the customs office tay dead in the ruins of St. Pierre. Kate Upson Clark, in the Christian

Pride of opinion is perhaps the most common fault of us fairly educated and intelligent moderns. We form our judgments and then, as it were, defy good games.

Vaccine for Treatment of Cancer. Is cancer, the disease which has bat-fied medical science for over a hun-dred years, to be conquered at last; Dr. P. K. Gilman of Oakland, profes-sor of surgery in the Philippine Medical School and surgeon in chief of the Philippine General Hospital at Manila, believes he has discovered a vaccine which will stop the ravages of the

drend disease.

With this vaccine Doctor Gliman says he has cured twenty cases of cancer in Manila. In his laboratories there he has been working for three years on his discovery and is now ready to give to the world the fruit of his labors. In perfecting this vaccins Doctor Gliman was assisted by Dr. A. F. Coca, pathologist in the bureau of science at Maniis.—San Francisco

Pastry Note.

Apparently there may not be much difference on the surface, or even under the crust between the mock mince ple and the real, but that there is a difference can be seen on the peaceful countenance of the small boy as he lies in the realms of dreamland.

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you can probably get a list of the fellows who dodge their taxes.

Literary Accuracy. "You write of your hero as stealing home in the darkness," said the ed-

"Yes," replied the author,
"Well, you ought to know better
than that. He couldn't steal home in
the dark. If it was dark enough to be
worth noticing the game would have
been called,"

EAGER TO WORK. Health Regained by Right Food.

The average healthy man or woman is usually eager to be busy at some useful task or employment.
But let dyspepsia or indigestion get hold of one, and all endeavor becomes

a burden.

"A year ago, after recovering from an operation," writes a Michigan lady, 'my stomach and nerves began to give

"At times my appetite was voracleus, but when induiged, indigestion followed. Other times I had no appe-tite whatever. The food I took did not nourish me and I grew

"I lost interest in everything and wanted to be alone. I had always had good nerves, but now the merest triffe would upset me and bring on a violent headache. Walking across the room headache. Walking across the room was an effort and prescribed exercise

was out of the question.
"I had seen Grape-Nuts advertised, but did not believe what I read at the time. At last when it seemed as if I was literally starving, I began to eat Grape-Nuts.
"I had not been able to work for a

year, but now after two months on Grape-Nuts I am eager to be at work again. My stomach gives me no trouble now, my nerves are steady as ever, and interest in life and ambition have come back with the return to health. Read "The Road to V kgs. "There's a Reason."

Ever read the above letter? A new me appears from time to time. They ire genuine, true, and full of human aterests.

## Bad BLO

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